

## CLAIMS:

1. A support apparatus for a construction mast comprising:  
a truss;  
a top adjustable mount assembly secured to the truss wherein the adjustable mount assembly is selectively positionable so as to engage the construction mast.
2. The support apparatus of claim 1 comprising:  
a bottom adjustable mount assembly mounted to a bottom frame portion of the truss, including at least one bottom wedge bracket assembly wherein the bottom wedge bracket is selectively positionable with respect to the bottom frame portion so as to engage the construction mast.
3. The support apparatus of claim 1, wherein the top adjustable mount assembly comprises:  
at least one wedge bracket assembly; and  
at least one pin cradle assembly.
4. The apparatus of claim 1, wherein the top adjustable mount assembly comprises:  
four top wedge bracket assemblies; and  
two top pin cradle assemblies.
5. The apparatus of claim 2, wherein the bottom adjustable mount assembly comprises:  
four bottom wedge bracket assemblies.

6. The apparatus of claim 3, wherein the pin cradle assembly comprises:

a truss mounting plate fixably mounted to a top frame portion of the truss;

a cradle mounting flange selectively positionable with respect to the truss mounting plate; and

a pin support plate fixed to the cradle mounting flange and shaped so as to receive a cross pin.

7. The apparatus of claim 6, wherein mounting bolts are alternately disposable through at least two sets of mounting holes in the cradle mounting flange so as to allow the selective positioning of the cradle mounting flange with respect to the truss mounting plate.

8. The apparatus of claim 6, wherein mounting bolts are disposed through slots in the cradle mounting flange so as to allow the selective positioning of the cradle mounting flange with respect to the truss mounting plate.

9. The apparatus of claim 3, wherein the wedge bracket assembly comprises:

a bracket mounting plate fixably mounted to a top frame portion of the truss;

a bracket mounting flange selectively positionable with respect to the bracket mounting plate;

a wedge plate fixed to the bracket mounting flange; and

a wedge positionable between the wedge plate and the construction mast.

10. The apparatus of claim 9 and comprising:  
at least one spacer disposed against the wedge plate.
11. The apparatus of claim 9 wherein mounting bolts are alternately disposable through at least two sets of mounting holes in the bracket mounting flange so as to allow the selective positioning of the bracket mounting flange with respect to the bracket mounting plate.
12. The apparatus of claim 9 wherein mounting bolts are disposed through slots in the bracket mounting flange so as to allow the selective positioning of the bracket mounting flange with respect to the bracket mounting plate.
13. The apparatus of claim 2 wherein the bottom wedge bracket assembly comprises:
  - a bracket mounting plate fixably mounted to a bottom frame portion;
  - a bracket mounting flange selectively positionable with respect to the bracket mounting plate;
  - a wedge plate fixed to the bracket mounting flange; and
  - a wedge positionable between the wedge plate and the construction mast.
14. The apparatus of claim 13 and comprising:  
at least one spacer disposed against the wedge plate.

15. A method for supporting multiple construction masts comprising:  
 disposing a first mast having a first outer diameter into a truss  
     having a top adjustable mount assembly and a bottom  
     adjustable mount assembly;  
 positioning the top adjustable mount assembly into a first top  
     position so as to supportably engage the first mast; and  
 positioning the bottom adjustable mount assembly into a first  
     bottom position so as to supportably engage the first mast.
16. The method of claim 15 comprising:  
 removing the first mast from the truss;  
 disposing a second mast having a second outer diameter into the  
     truss;  
 positioning the top adjustable mount assembly into a second top  
     position so as to supportably engage the second mast; and  
 positioning the bottom adjustable mount assembly into a second  
     bottom position so as to supportably engage the second  
     mast.
17. The method of claim 15 wherein the step of positioning the top  
 adjustable assembly into a first position comprises:  
     positioning a pin cradle assembly having a pin support plate such  
         that the pin support plate is proximate the first mast;  
     disposing a cross pin through the first mast; and  
     supporting the cross pin on the pin support plate.
18. The method of claim 16 wherein the step of positioning the top  
 adjustable mount assembly into a second position comprises:

Figure 1 is a schematic representation of the experimental setup. It shows a cross-section of a rectangular container with a central vertical tube. The container is filled with a fluid, and the tube is connected to a pressure transducer. The setup is used to study the flow of a fluid through a narrow channel. The diagram includes labels for the container, tube, and pressure transducer.

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driving a wedge between the wedge plate and the second mast.

23. A support frame for receiving a mast comprising:
  - a truss having top frame tubes and bottom frame tubes;
  - a plurality of top wedge bracket assemblies secured to the top frame tubes equidistantly from each other, each top wedge bracket assembly having a top bracket mounting plate fixably mounted to the top frame tubes, a top bracket mounting flange selectively positionable with respect to the top bracket mounting plate, a top wedge plate fixed to the bottom bracket mounting flange, and a top wedge positionable between the top wedge plate and the construction mast;
  - a plurality of pin cradle assemblies secured to the top frame tubes, each pin cradle assembly having a truss mounting plate fixably mounted to the top frame tubes, a cradle mounting flange selectively positionable with respect to the truss mounting plate, and a pin support plate fixed to the cradle mounting flange and shaped so as to receive a cross pin; and
  - a plurality of bottom wedge bracket assemblies secured to the bottom frame tubes equidistantly from each other, each bottom wedge bracket assembly having a bottom bracket mounting plate fixably mounted to the bottom frame tubes, a bottom bracket mounting flange selectively positionable with respect to the bottom bracket mounting plate, a bottom wedge plate fixed to the bottom bracket mounting flange, and a bottom wedge positionable between the bottom wedge plate and the mast.

24. The frame of claim 23 comprising:  
a spacer bearing plate fixably mounted to the top frame portion; and  
at least one spacer disposed between the top spacer bearing plate  
and the top wedge plate.
25. The frame of claim 23 wherein the truss is shaped so as to receive  
the mast, wherein the mast has an outer diameter of from approximately 24 inches  
to approximately 32 inches.
26. A support frame for receiving a plurality of masts having different  
cross-sectional diameters comprising:  
a truss having a top frame portion and a bottom frame portion;  
means for supportably receiving any one of the plurality of masts at  
the top frame portion; and  
means for supportably receiving any one of the plurality of masts at  
the bottom frame portion.
27. The support frame of claim 26 comprising:  
a top wall anchorage fixably secured to the top frame portion and  
adapted so as to be mountable to a vertical surface.
28. The support frame of claim 26 comprising:  
a bottom wall anchorage fixably secured to the bottom frame  
portion and adapted so as to be mountable to a vertical  
surface.